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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/605,503	06/28/2000	Michael T. Moore	0325.00364	5734
21363	7590 07/03/2003			
CHRISTOPHER P. MAIORANA, P.C.			EXAMINER	
24025 GREATER MACK SUITE 200			MALZAHN, DAVID H	
ST. CLAIR SE	HORES, MI 48080	•	ART UNIT	PAPER NUMBER
			2124	6
			DATE MAILED: 07/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	X
• ·	09/605,503	MOORE ET AL.	
Office Action Summary	Examiner	Art Unit	
	David H. Malzahn	2124	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by second and period for reply will, by second patent term adjustment. See 37 CFR 1.704(b). Status	ON. R 1.136(a). In no event, however, may a rein. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communic NDONED (35 U.S.C. § 133).	cation.
1) Responsive to communication(s) filed on	08 May 2003 .		
2a)⊠ This action is FINAL . 2b)□	This action is non-final.		
3) Since this application is in condition for a closed in accordance with the practice un			rits is
Disposition of Claims	•	·	
4) Claim(s) 1-20 is/are pending in the application	ation.		
4a) Of the above claim(s) is/are with	ndrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			•
9) The specification is objected to by the Exar	niner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ a	accepted or b) objected to by th	e Examiner.	
Applicant may not request that any objection			
11) The proposed drawing correction filed on _	is: a)□ approved b)□ di	sapproved by the Examiner.	
If approved, corrected drawings are required	• •		
12) The oath or declaration is objected to by the	e Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum	nents have been received in Ap	plication No	
3. Copies of the certified copies of the application from the Internationa * See the attached detailed Office action for a	ll Bureau (PCT Rule 17.2(a)).	· ·	;
14) Acknowledgment is made of a claim for don	nestic priority under 35 U.S.C. §	119(e) (to a provisional appli	cation).
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for don	• • • • • • • • • • • • • • • • • • • •		
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,	,,	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449) Paper No	5) D Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office	e Action Summary	Part of Paper No. 6	

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Art Unit: 2124

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by White (4,344,151).

White's Fig. 1 illustrates a multiport memory including a first look-up table (e.g. ROM 25) that generates a first partial product signal from an address formed by concatenating a first and a second input signal (e.g. B_R and A_R), a second look-up table (e.g. ROM 26) that generates a second partial product signal from an address formed by concatenating a third and a fourth input signal (e.g. B_R and A_I) and a logic circuit (e.g. elements 31, 32 and 41).

Relative to applicants' remarks White shows concatenating two input signals to produce an address, note the above paragraph. Also relative to applicants' remarks the four inputs to the complex multiplier constitute the inputs to a quad port memory. Relative to applicants' remarks concerning claim 5 note the above paragraph. Relative to applicants' argument concerning claim 6 if data is represented as a single bit then there is no difference between a serial and a parallel configuration. Relative to applicants' remarks concerning claims 7 and 8 they are moot because the claim language is indefinite as detailed in the 112 rejection paragraph below.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over White and Chehrazi et al (Chehrazi).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to add one or more registers in increase the throughput of White's multiplier because pipelining is a well known technique to increase throughput as illustrated by Cheharizi.

Claim Rejections - 35 USC § 112

5. Claims 7-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The concatenating of the first and fourth input signals for addressing the third look-up table is mis-descriptive, note Fig. 1. Similarly note claim 8. Claim 10 is mis-descriptive because the first partial product signal is not shifted, note the equation of page 8, line 3.

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Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

> Primary Examiner Art Unit 2124